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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/738,374 12/15/2000		Toshikazu Funahara	36856.414	9810		
759	90 01/13/2003					
KEATING & BENNETT LLP			EXAMINER			
Suite 312 10400 Eaton Pla	ice	KINKEAD, ARNOLD M				
Fairfax, VA 22	2030		ART UNIT	PAPER NUMBER		
			2817			
			DATE MAILED: 01/13/2003	DATE MAILED: 01/13/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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o Oi			Application No.		Applicant(s)			
		Office Action Summary	09/738,374		FUNAHARA ET AL.			
		Office Action Summary	Examiner		Art Ünit			
		The MAIL ING DATE of the	Arnold M Kink		2817	latura a a		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status								
1	)⊠	Responsive to communication(s) filed on 28 0	October 2002 .					
2a	) <u> </u>	This action is <b>FINAL</b> . 2b)⊠ Th	is action is no	n-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims								
4	4)⊠ Claim(s) <u>1-4 and 6-19</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5	5)⊠ Claim(s) <u>11,13,16, and 19</u> is/are allowed.							
6	6)⊠ Claim(s) <u>1,2,3,4,10, 12,14, 15,17,. and 18</u> is/are rejected.							
7	7) Claim(s) 6-9 is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.								
• •		on Papers						
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11)☑ The proposed drawing correction filed on <u>30 October 2002</u> is: a)☑ approved b)☐ disapproved by the Examiner.								
11	<i>)</i>	<u>-</u>			disapproved by	the Examiner.		
If approved, corrected drawings are required in reply to this Office action.  12)☐ The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
	-		n priority unde	· 35 II S C & 119/a	u)-(d) or (f)			
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
a) ☐ All b) ☐ Some c) ☐ None of.  1. ☐ Certified copies of the priority documents have been received.								
	Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
14)	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
<ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>								
Attac	nmen	t(s)						
2) 🔲	Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _	4) 5) 6)		(PTO-413) Paper No Patent Application (PT			

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## **DETAILED ACTION**

Claim8 is objected to because of the following informalities: in claim 8 the words are too closely spaced.
 Appropriate correction is required.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 4. Claims 1,2,3,4,10,12,14,15, 17 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over

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  Avanic et al(5,650,755 new cite) in view of Morino et al(5,661,441).

The reference by Avanic et al discoses a VCO resonator package (310)with circuit substrate (302) and connections to the substrate being inherent(see figure 3); a shield(314) is shown bonded to the top of the resonator package(310).

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The reference does not show a center located cavity for the resonator, as well as a crystal type resonator, and lastly, the use of solder cream, for example, as an adhesive for the bonding to the shield.

The reference by Morino et al shows these ideas, see figure 1, and col. 2, where a cavity with walls is shown to receive the resonator package(1); use of solder cream (15) also aids to bond the package and hold it stably is noted. The particular type of resonator is not a crystal, however, this is simply another conventional resonator package that is notoriously well known in the art.

In light of the above it would have been obvious for one of ordinary skill in the art to have realized that the stability of Avanic et al vibrator package is due to the soldering of the package to the shield and that any conventional and reflected in the Monno and

## Allowable Subject Matter

- 5. Claims 6-9 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. Claims 11,13, 16 and 19 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnold M Kinkead whose telephone number is 703-305-3486. The examiner can normally be reached on Mon-Fri, 8:30 am -5 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on 703-308-4909. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7724 for regular communications and 703-308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Arnold M Kinkead Primary Examiner Art Unit 2817

Arnold Kinkead January 8, 2003

> ARNOLD KINKEAD PRIMARY EXAMINER